AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1.   (currently amended): A fault tolerant computer having a disk multiplexing mechanism which multiplexes a plurality of storage devices and an access path multiplexing mechanism which sets and multiplexes a plurality of access paths for said plurality of storage devices, the fault tolerant computer comprising:

a disk management mechanism which inputs, when a fault such as a failure of one of said storage device devices occurs, physical position information of said storage device and operation contents related to the storage device in question to instruct said disk multiplexing mechanism on restoration operation including cut-off and integration operation of said storage device.

2.   (original): The fault tolerant computer as set forth in claim 1, wherein said disk management mechanism includes

a data base which stores said physical position information of said storage device and information about an access path to said storage device so as to correspond with each other for each said storage device.

3.   (original): The fault tolerant computer as set forth in claim 2, wherein

said disk management mechanism sends

said access path information corresponding to said physical position information

obtained from said data base together with said operation contents to said disk multiplexing

mechanism to instruct on restoration operation including cut-off and integration operation of said

storage device.

4.   (currently amended): The fault tolerant computer as set forth in claim 2, further

comprising:

a first access element which sends said access path information corresponding to

said physical position information obtained from said data base to said access path multiplexing

mechanism to receive, from said access path multiplexing mechanism which manages said

access path information, a virtual access path served for said disk multiplexing mechanism to

recognize said storage device, which is a virtual access path obtained by bundling said plurality

of access paths into one, and

a second access element which sends path information composed of said virtual

access path received by said first access element and said operation contents to said disk

multiplexing mechanism.

5.   (currently amended): The fault tolerant computer as set forth in claim 2, wherein

said disk management mechanism includes

an interface element which receives input of physical position information of said

storage device and operation contents related to the storage device in question, as well as

receives operation results of said operation contents from said disk multiplexing mechanism.

6.   (currently amended): The fault tolerant computer as set forth in claim 2, further

comprising:

a first access element which sends said access path information corresponding to

said physical position information obtained from said data base to said access path multiplexing

mechanism to receive, from said access path multiplexing mechanism which manages said

access path information, a virtual access path served for said disk multiplexing mechanism to

recognize said storage device, which is a virtual access path obtained by bundling said plurality

of access paths into one, and

a second access element which sends path information composed of said virtual

access path received by said first access element and said operation contents to said disk

multiplexing mechanism, wherein

said disk management mechanism includes

an interface element which receives input of physical position information of said

storage device and operation contents related to the storage device in question, as well as

receives operation results of said operation contents from said disk multiplexing mechanism.

7.   (currently amended): A disk management mechanism of a fault tolerant computer

having a disk multiplexing mechanism which multiplexes a plurality of storage devices and an

access path multiplexing mechanism which sets and multiplexes a plurality of access paths for

said plurality of storage devices, wherein

when a fault such as a failure of <u>one of</u> said storage ~~device~~ <u>devices</u> occurs,

physical position information of said storage device and operation contents related to the storage

device in question are input to instruct said disk multiplexing mechanism on restoration

operation including cut-off and integration operation of said storage device.

8.   (original): The disk management mechanism of a fault tolerant computer as set

forth in claim 7, including

a data base which stores said physical position information of said storage device

and information about an access path to said storage device so as to correspond with each other

for each said storage device.

9.   (original): The disk management mechanism of a fault tolerant computer as set

forth in claim 8, wherein

said access path information corresponding to said physical position information

obtained from said data base is sent together with said operation contents to said disk

multiplexing mechanism to instruct on restoration operation including cut-off and integration

operation of said storage device.

10.   (currently amended): The disk management mechanism of a fault tolerant

computer as set forth in claim 8, further comprising:

a first access element which sends said access path information corresponding to

said physical position information obtained from said data base to said access path multiplexing

mechanism to receive, from said access path multiplexing mechanism which manages said

access path information, a virtual access path served for said disk multiplexing mechanism to

recognize said storage device, which is a virtual access path obtained by bundling said plurality

of access paths into one, and

a second access element which sends path information composed of said virtual

access path received by said first access element and said operation contents to said disk

multiplexing mechanism.

11.   (currently amended): The disk management mechanism of a fault tolerant

computer as set forth in claim 8, further comprising

an interface element which receives input of physical position information of said

storage device and operation contents related to the storage device in question, as well as

receives operation results of said operation contents from said disk multiplexing mechanism.

12.   (currently amended): The disk management mechanism of a fault tolerant

computer as set forth in claim 8, further comprising:

a first access element which sends said access path information corresponding to

said physical position information obtained from said data base to said access path multiplexing

mechanism to receive, from said access path multiplexing mechanism which manages said

access path information, a virtual access path served for said disk multiplexing mechanism to

recognize said storage device, which is a virtual access path obtained by bundling said plurality

of access paths into one,

a second access element which sends path information composed of said virtual

access path received by said first access element and said operation contents to said disk

multiplexing mechanism, and

an interface element which receives input of physical position information of said

storage device and operation contents related to the storage device in question, as well as

receives operation results of said operation contents from said disk multiplexing mechanism.

13.   (currently amended): A computer readable medium with a disk management

program of a fault tolerant computer stored thereon, the disk management program having a disk

multiplexing mechanism which multiplexes a plurality of storage devices and an access path

multiplexing mechanism which sets and multiplexes a plurality of access paths for said plurality

of storage devices, which the disk management program executingexecutes,

when a fault such as a failure of one of said storage device devices occurs, a

function of instructing said disk multiplexing mechanism on restoration operation including cut-

off and integration operation of said storage device by inputting physical position information of

said storage device and operation contents related to the storage device in question.

14.   (currently amended): The <u>computer readable medium</u> ~~disk management program~~

~~of a fault tolerant computer~~ as set forth in claim 13, ~~which~~ <u>wherein the disk management</u>

<u>program</u> executes the functions of:

sending, to said access path multiplexing mechanism, access path information

corresponding to said physical position information obtained from a data base which stores said

physical position information of said storage device and said access path information to said

storage device so as to correspond with each other for each said storage device and receiving,

from said access path multiplexing mechanism which manages said access path information, a

virtual access path served for said disk multiplexing mechanism to recognize said storage device,

which is a virtual access path obtained by bundling said plurality of access paths into one, and

sending path information composed of said virtual access path received and said

operation contents to said disk multiplexing mechanism.

15.   (currently amended): The <u>computer readable medium</u> ~~disk management program~~

~~of a fault tolerant computer~~ as set forth in claim 14, ~~which~~ <u>wherein the disk management</u>

<u>program</u> executes

an interface function of receiving input of physical position information of said

storage device and operation contents related to the storage device in question, as well as

receiving operation results of said operation contents from said disk multiplexing mechanism.